

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2004/006707

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B60K7/00 B60G3/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B60K B60G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/083446 A (NAGAYA GO ; BRIDGESTONE CORP (JP)) 24 October 2002 (2002-10-24) figures 50-54	1,2,5,6
X	US 5 848 663 A (KURIKI NOBUHARU) 15 December 1998 (1998-12-15) abstract; figure 1 column 2, lines 54-63 column 3, lines 33-40 column 3, lines 51-54	1,2,5,6
X	GB 156 398 A (PAUL ALPHONSE HUBERT MOSSAY; RANSOMES SIMS & JEFFERIES LTD; MOSSAY & C) 13 January 1921 (1921-01-13) figure 1	1,5,7
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

12 August 2004

Date of mailing of the international search report

24/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Schultze, Y



## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2004/006707

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 37 25 620 A (KLAUE HERMANN) 23 February 1989 (1989-02-23) figure 2 column 4, lines 27-29 -----	1,5
X	US 5 679 087 A (LUTZ DIETER) 21 October 1997 (1997-10-21) figure 2 column 9, lines 4-26 -----	1,5
A	PATENT ABSTRACTS OF JAPAN vol. 012, no. 287 (M-678), 19 March 1988 (1988-03-19) & JP 62 227813 A (ISUZU MOTORS LTD), 6 October 1987 (1987-10-06) abstract -----	1,5
A	EP 0 544 597 A (TOKYO R & D KK) 2 June 1993 (1993-06-02) figures -----	1,5



# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP2004/006707

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02083446	A	24-10-2002	CN 1460076 T	03-12-2003
			EP 1380459 A1	14-01-2004
			WO 02083446 A1	24-10-2002
			JP 2004115014 A	15-04-2004
			US 2004099455 A1	27-05-2004
US 5848663	A	15-12-1998	JP 3525954 B2	10-05-2004
			JP 8175193 A	09-07-1996
			DE 19547314 A1	11-07-1996
GB 156398	A	13-01-1921	NONE	
DE 3725620	A	23-02-1989	DE 3725620 A1	23-02-1989
US 5679087	A	21-10-1997	DE 4421427 C1	18-01-1996
			FR 2721453 A1	22-12-1995
JP 62227813	A	06-10-1987	NONE	
EP 0544597	A	02-06-1993	JP 3196121 B2	06-08-2001
			JP 5147445 A	15-06-1993
			EP 0544597 A1	02-06-1993